

# Empowering Secure, Compliant AI for Financial Services

CLOUDIAN HYPERSCALE® AI DATA PLATFORM



## The Financial Services AI Imperative

Financial services organizations face mounting pressure to enhance customer experience, detect fraud in real-time, automate risk assessment, and streamline regulatory compliance—all while protecting highly sensitive customer data and meeting stringent regulatory requirements. Artificial intelligence offers transformative potential: AI-powered fraud detection can identify suspicious transactions in milliseconds, intelligent document processing can reduce loan approval times by 70%, and conversational AI can deliver personalized financial advice at scale. However, financial institutions face a critical barrier: customer financial data, transaction records, personally identifiable information (PII), and proprietary trading algorithms cannot be sent to public cloud AI services without violating regulations like GDPR, exposing institutions to data breaches, or compromising competitive advantage. Cloud-based AI also introduces latency incompatible with real-time fraud detection and creates variable costs that complicate budget planning. The solution lies in on-premises AI infrastructure that maintains regulatory compliance and data sovereignty while delivering the performance financial services applications demand.

## Cloudian HyperScale AI Data Platform: Compliant AI Without Compromise

Cloudian HyperScale AI Data Platform (AIDP) is a turnkey, on-premises solution that combines NVIDIA GPU infrastructure and AI software with enterprise-grade storage to deliver complete AI capabilities within your data center—keeping your sensitive financial data secure, compliant, and under your control. The fully integrated solution includes 24/7 enterprise support, deploys in hours, and requires no specialized AI skills.

## Ready-to-Deploy AI with NVIDIA Blueprints

HyperScale AIDP accelerates time-to-value with NVIDIA AI Blueprints—pre-built AI workflows for proven financial services use cases. The [Enterprise Document Blueprint](#) enables financial institutions to instantly query vast repositories of regulatory documents, policy manuals, product specifications, and compliance guidelines using natural language. Compliance officers can ask questions like “What are the reporting requirements for transactions exceeding \$10,000?” and receive accurate answers drawn from internal documentation—without exposing sensitive data to external AI services. Customer service representatives can quickly access product details and policy terms to provide accurate responses. This Blueprint references source documents to ensure responses are grounded in your actual documentation, not hallucinated by the AI model.

The [Video Search and Summarization Blueprint](#) transforms how financial institutions leverage video content. Banks and insurance companies generate extensive video: branch security footage, insurance claim documentation, customer interaction recordings for quality assurance, and compliance training materials. This Blueprint enables semantic search across your entire video library and automatic summarization of key events. Fraud investigators can search for “suspicious ATM behavior patterns” and instantly locate relevant footage across thousands of hours of recordings. Claims adjusters can quickly review video evidence from multiple incidents to identify patterns. Compliance teams can efficiently audit customer interactions for regulatory adherence.

## Industry Benefits

- Query regulatory documents and policies instantly
- Search customer interaction videos for compliance
- Accelerate fraud investigation with video search
- Improve customer service with instant policy access
- Audit branch operations efficiently across locations

## Solution Benefits

- On-prem for complete data sovereignty
- Fully integrated solution eliminates risk
- 24x7 enterprise support included
- Deploys in hours, not months
- Immutable audit trails for regulators



Future Cloudian AIDP releases will support additional Blueprints, including:

- **AI Model Distillation for Financial Data:** Distill and deploy domain-specific AI models from unstructured financial data to generate market signals efficiently.
- **Financial Fraud Detection:** Detect and prevent sophisticated fraudulent activities for financial services with high accuracy.
- **Quantitative Portfolio Optimization:** Enable fast, scalable, and real-time portfolio optimization for financial institutions.

Discover more on [NVIDIA AI Solutions for Finance Industries](#).

## How Cloudian HyperScale AIDP Delivers

Built on a foundation of Cloudian HyperStore object storage with native S3 API compatibility, HyperScale AIDP integrates NVIDIA AI Enterprise software and GPU-accelerated compute infrastructure. This pre-integrated solution eliminates months of complex system integration while providing enterprise-grade capabilities that address the core challenges financial institutions face.

## Securing Your Competitive Advantage and Regulatory Compliance

Government-verified security features including encryption, immutable object lock for ransomware protection, and comprehensive access controls ensure that your AI training data remains secure throughout its lifecycle. On-premises deployment ensures compliance with data sovereignty requirements including GDPR, CCPA, PCI-DSS, and regional banking regulations. Customer PII, transaction records, credit histories, and proprietary risk models stay under your complete control. Immutable audit trails support regulatory reporting requirements and demonstrate due diligence to examiners.

## Real-Time Performance for Time-Sensitive Applications

HyperScale AIDP's integration of NVIDIA RDMA over S3 technology delivers high sustained throughput with direct data access from storage to GPU memory. Whether you're analyzing millions of transactions per second for fraud detection, processing mortgage applications with complex document analysis, or running Monte Carlo simulations for risk assessment, HyperScale AIDP provides the consistent, low-latency performance financial applications require. Real-time fraud detection can't wait for cloud latency—HyperScale AIDP delivers millisecond response times for transaction scoring.

## Simplified Economics with Predictable Costs

Traditional AI infrastructure requires multiple storage layers and complex data orchestration. HyperScale AIDP eliminates this complexity with a unified architecture where AI training and inference happen directly on the data lake. By removing expensive file storage layers, financial institutions achieve up to 70% cost savings compared to traditional approaches. With predictable on-premises costs and no surprise cloud bills, HyperScale AIDP delivers a clear, defensible ROI.

## Future-Proof Your Financial Services Operations

HyperScale AIDP provides a foundation that grows with your AI ambitions. The platform's native S3 API ensures compatibility with the vast ecosystem of AI tools and frameworks. As AI models evolve and NVIDIA continues expanding its Blueprint portfolio, HyperScale AIDP's flexible architecture adapts without requiring infrastructure replacement. By investing in HyperScale AIDP today, financial services organizations build the infrastructure foundation for a decade of AI-driven innovation while maintaining the security, compliance, and data sovereignty that regulators and customers demand.



Cloudian turns information into insight with an exabyte scalable platform that consolidates, manages and protects enterprise data. Cloudian enterprise file and object storage brings cloud technology and economics to the data center with uncompromising data durability, intuitive management tools, and the industry's most compatible S3 API. Cloudian and its ecosystem partners help Global 1000 customers simplify operations in enterprise use cases including data management, analytics, storage services, and AI/ML.

More at [cloudian.com](https://cloudian.com)